

CMPLX() and KIND - avoid accidental ...

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May 31, 2007 Just saw a thread in another forum that I thought would be useful for this audience as well. Namely, when forming complex numbers with the Fortran intrinsic CMPLX:

CMPLX(1.d+0,3.d+0)

or

CMPLX(a,b)

Note that the return value is of *default* KIND independent of the KINDs of the arguments. I.e. on most systems, the return value will be *single* precision even if the arguments are double precision. To return a different (e.g. double) precision, use the optional KIND= specifier:

CMPLX(1.d+0,3.d+0, KIND=KIND(1.d+0))

or

CMPLX(a,b,KIND=KIND(1.d+0)) Tags: fortran, best_practices